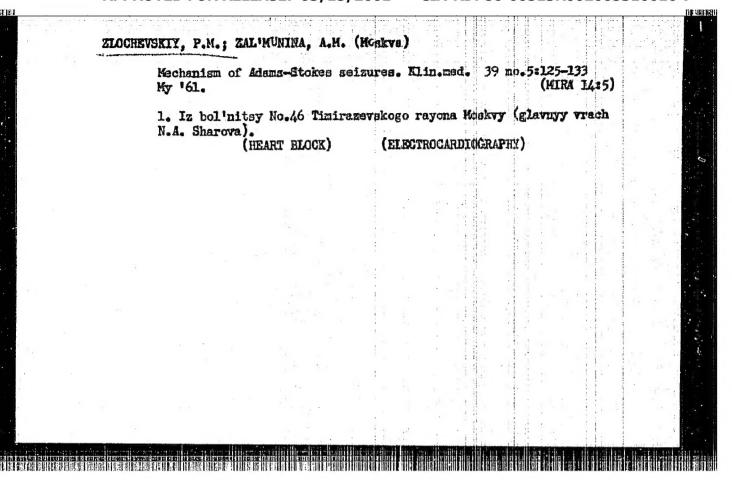
Improving working conditions in blast-furnace plants. Bezop.truda v prom. 3 no.1:15-16 Ja '59. (MIRA 12:3)

1. Upravleniye metallurgicheskoy promyshlennosti Chelyabinskogo sovnarkhoza (for Zlochevskiy). 2. Starshty inzhener po tekhnike bezopis-nosti upravleniya metallurgicheskoy promyshlennosti chelyabinskogo sovnarkhoza (for Berg).

(Chelyabinsk-Blast furnaces)



36941 S/142/61/004/006/002/017 E192/E382

9,2572

AUTHORS:

Samoylenko, V.I. and Zlochevskiy, Ye.M.

TITLE:

Theory of dynamic processes in a parametron based on

the capacitance of an n-p-junction

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, vol. 4, no. 6, 1961, 640 - 652

TEXT: The system considered is illustrated in Fig. 1 and the solution of the equation describing its operation is based on the asymptotic methods developed by N.N. Bogolyubov and Yu.A. Mitropol'skiy (Asymptotic methods in the theory of non-linear oscillations (Asimptoticheskiye metody v teorii nelineynykh kolebaniy), Gosfizmatizdat, 1958 - Ref. 5). The capacitance C_K in Fig. 1 is the differential capacitance of

an n-p junction which can approximately be expressed as:

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S/142/61/004/006/002/017
Theory of dynamic processes E192/E382

$$c_{K} = c_{0} \frac{1}{1 + \frac{1}{2} \frac{U}{E + \varphi_{K}}}$$
 (4)

where $c_0 = c_{KO} \sqrt{\frac{\phi_K}{\phi_K + E}}$ which represents the capacitance

at the operating point,

CKO is the capacitance in the absence of an external voltage,

 ϕ_{K} is the contact potential difference,

U is the excitation voltage across the capacitance, and
is the biasing voltage at the operating point

E is the biasing voltage at the operating point. It is shown that the second approximation to the solution of the

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Theory of dynamic processes

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characteristic equation of the system is given by:

$$\xi = a \cos\left(\frac{1}{2}t + \Theta\right) + \frac{a^2}{6}\cos(1t + 2\Theta) + \frac{\xi_0}{3}\sin(1t - 2\Theta)$$
 (6)

where $\xi = U/(E + \phi_K)$, $\xi_0 = U_0/(E + \phi_K)$, $\delta = r/L$ and $\omega = 1/(\sqrt{LC_0})$. The amplitude α and the phase angle Θ , which are "slowly"-changing functions of time, can be found from the following equations:

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Theory of dynamic processes

$$\begin{cases} \frac{da}{dt} = -\frac{\delta a}{2} + \frac{\zeta_0 \omega^2}{4 \sqrt{1 - \alpha^2 + \frac{\zeta_0 \omega^2}{4 \sqrt{1$$

The above equations are analyzed for the steady state, when $d\alpha/dt=d\,\Theta/dt=0$ and the results are shown in some graphs.

Since Eq. (7) cannot be solved analytically, they are evaluated approximately for a number of special cases by employing the method of numerical integration. It is concluded from the analysis that, unlike in a normal oscillator, the shape and duration of the transient processes in a parametron depend not only on amplitude but also on the phase of the oscillations in the circuit at the instant of applying the pump signal.

Card 4/6

- Commence Comment Com

Theory of dynamic processes

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For certain initial conditions the amplitude of the oscillations in the circuit may decrease and later increase. The duration of the transient depends on the initial conditions as well as on the quality factor of the circuit and the amplitude of the pump signal. The duration of the transient can amount to tens and even hundreds of cycles of the pump signal under normal conditions. The duration can be arbitrarily large under certain zero initial conditions. In general, the amplitude and the phase transient under certain conditions; absence of oscillations and presence of oscillations with two possible phase states. There are 9 figures.

ASSOCIATION:

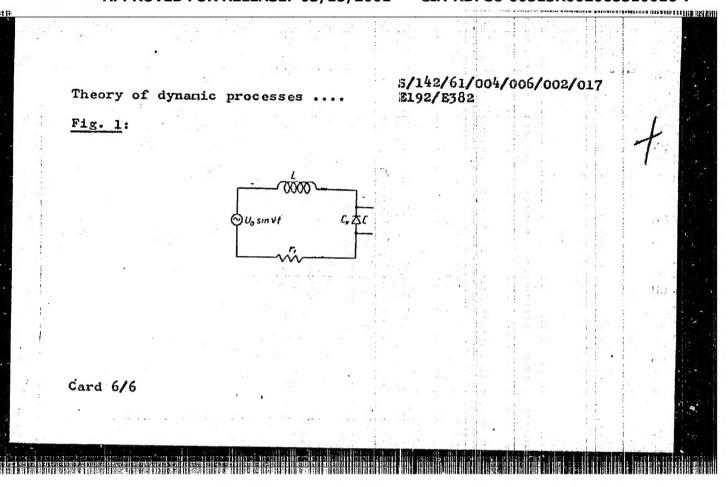
Kafedra Moskovskogo aviatsionnogo instituta im. Sergo Ordzhonikidze (Department of the

Moscow Aviation Institute im. Sergo Ordzhonikidze)

SUBMITTED:

February 2, 1961

Card 5/6



ZLODEYEV, G.A.

ANDREYEV, A.B.; ANTOHOV, A.I.; ARAPOV, P.P., BARMASH, A.I., BEDITAKOVA, A.B.; BENIH, G.S.; BERESHEVICH, V.V.; HERNSHTEPH, S.A.; BITTUTSKOV, V.I.; BLYUMENBERG, V.V.; BONCH-BENYEVICH, M.D.; BORMOTOV, A.D.; BULGAKOV, H.I.; VEKSLER, B.A.; GAVRILENKO, I.V.; GENELLER, Ye.S., [deceased]; GERLIVANOV, N.A., [deceased]; GIBSHIAN, You'Ye.; COLDOVSKIT, Ye.H.; CORBUNOV, P.P.; CORYALNOV, F.A.; CRIMBERG, B.G.; GRYUNER, V.S.; DAMOVSKIY, N.F.; DZEVUL'SKIY, V.M., [dqcqased]; DREMAYLO, P.G.: DIBERS, S.G.: D'TACHENKO, P.F.: DYUHBBAUM, M.S. [deceased]: YENORCHENKO, B.F. [deceased]: YEL YASHKEYICH, S.A.: ZHEREBOV, L.P.; ZAVEL'SKIY, A.S.: ZAVEL'SKIY, F.S.; IVANOVSKIY, S.R.; ITKIN, I.M.; KAZHDAN, A.Ya.; KAZHINSKIY, B.B.; KAPLINSKIY, S.V.: KASATKIN, F.S.; KATSAUROV, I.H.; KITATGORODSKIY, I.I.; KOLESNIKOV, I.F.: KOLOSOV. V.A.: KOHAROV, N.S.: KOTOV. B.I.; LIMBE, V.V.: LEBEDEV. H.V.; LEVITSKIY, N.I.; LOKSHIN, Ya.Yu; LUTTSAH, V.K.; MANNERBERGER, A.A.; HIKHAYLOV, V.A.; MIKHAYLOV, U.M.; MURAY'YEV, I.M.; HYDEL MAN, G.E.; PAVLYSHKOV, L.S.; POLUYANOV, V.A.; POLYAKOV, Yo.S.; POPOV, V.V.; POPOV, H.I.; RAKHLIN, I Yo., RZHEVSKIY, V.V.; ROZERBERG. G.V.; ROZENTRETER, B.A.; HOKOTYAN, To.S.; HUHAVISHNIEOV, V.I.; HUTOVSKIY, B.H. [deceased]; HYVKIN, P.M.; SHIRHDY, A.P.; STEPANOV, G.Yu, STEPANOV, Tu.A.; TARASOV, L.Ya.; TOKAREV, L.Y.; USPASSKIY, P.P.; FEDOROV, A.V.; FERR, N.E.; FRENKEL', M.Z.; KHETE ETS. S.Ya.; KHLOPIN. M.I.; KHODOT, V.V.; SHAMSHUR, V.I.; SHAPIRO, A.Ye.; SHATSOV, M.I.; SHISHKINA, N.H.; SHOR, E.R.; SHPICHERESKIY, Yo.S.; SEPRINE, B.R.; SHTERLING, S.Z.; SHUTTY, L.R.; SHUKHGAL'THR, L. Ya.; ERVAYS, A.V.; (Continued on mext card)

AMDREYEV, A.B. (continued) Card 2.

YAKOVLEY, A.V.; ANDREYEY, Ye.S., retmensent, redaktor; BERREE. GETM, B.M., retsenzent, redaktor; BERMAN, L.D., retsengent, redaktor; BOLTINSKIY, V.H., retsenzent, redaktor; BONCH-BRUYEVICH, V.L., retsensent, redaktor; VELLER, M.A., Petsensent, redaktor; VINOGRADOV. A.V., retsenzent, redaktor; GUDTSOV, N.T., retsenment, redaktor; DEGTTAREV, I.L., retsensent, redaktor; DEM'YAMYUK, F.S., retsensent; redaktor; DOBROSMYSLOV, I.N., retsenment, redaktor; YHLANCHIE, G.M. retsenzent, redaktor; ZHEMOCHKIN, D.N., retsenzent, redaktor: SHURAVCHENKO, A.N., retsenzent, redaktor; ZIOTRYHY (A., retsenzent, redaktor; KAPLUNOV, R.P., retsenzent, redaktor; KUSAKDV, M.M., retsenzent, redaktor; LEVINSON, L.Ye., [deceased] retsenzent, redaktor; MALOV, N.N., retsenzent, redaktor; MARNUS, V.A. retsenzent, redaktor; METELITSYN, I.I., retsenzent, redaktor; MIKHAYLOV, S.K., retsenzent; redaktor; OLIVETSKIY, B.A., retsenzent, redaktor; PAVLOV, B.A., retsengent, redaktor; PANYUKOV, M.P., retsengent, redaktor; PLAKSIN, I.M. retsensent, redaktor; RAKOV, K.A. retsensent, redaktor; RZHAVINSKIY, V.V., retsenzent, redaktor; RIMBERG, A.M., retsensent; redaktor; ROCOVIN, N. Ye., retsenzent, redaktor; RUDBIKO, K.G., retsenzent, redaktor; RUTOVSKIY, B.N., [deceased] retsenzent, redaktor; RYZHOV, P.A., retsenzent, redaktor; SAMDOMIRSKIY, V.B., retsenzent, redaktor: SKHAMTAYEV, B.G., retsensent, redaktor: SOKOV, V.S., retsenzent, redaktor; SOKOLOV, N.S., retsenzent, redaktor; SPIVAKOVSKIY, A.O., retsenzent, redaktor; STRAMENTOV, A.Ye., retsenzent, redaktor; STRELETSETY, N.S., retsenzent, redaktor; (Continued on next card)

ANDREYEV. A.V., (continued) Card 3.

THET'YAKOV, A.P., retsensent, redaktor; FAYERMAN, Ye,M., retsensent, redaktor; KHACHATYROV, T.S., retsensent, redaktor; CHERNOV, H.V., retsensent, redaktor; SHESTO-FAL, V.M., retsensent, redaktor; SHESHKO, Ye.F., retsensent, redaktor; SHCHAPOV, N.M., retsensent, redaktor; YAKOBSON, H.O., retsensent, redaktor; STEPANOV, Yu.A., Professor, redaktor; DEM'TANYUK, F.S., professor, redaktor; ZNAMENSKIY, A.A., inshener, redaktor; PLAKSIN, I.N., redaktor; RUTOVSKIY, B.N. [deceased] doktor khimicheskikh nauk, professor, redaktor; SHUKHGAL'TER, L. Ya, kandidat tekhnicheskikh nauk, dotsent; redaktor; BRESTINA, B.S., redaktor; ZNAMENSKIY, A.A., redaktor; Continued on next card)

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[Concise polytechnical dictionary] Kratkii politekhnicheskii slovar'. Redaktsionnyi sovet; IU.A.Stspanov i dr. Moskva. Gos. isd-vo tekhniko-teoret. lit-ry, 1955. 1136 p. (MLRA 8:12)

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We get word. Strcitel: % no.7:7 Jl '61. (HIRA 14:8)
(Construction industry—Technological immovations)

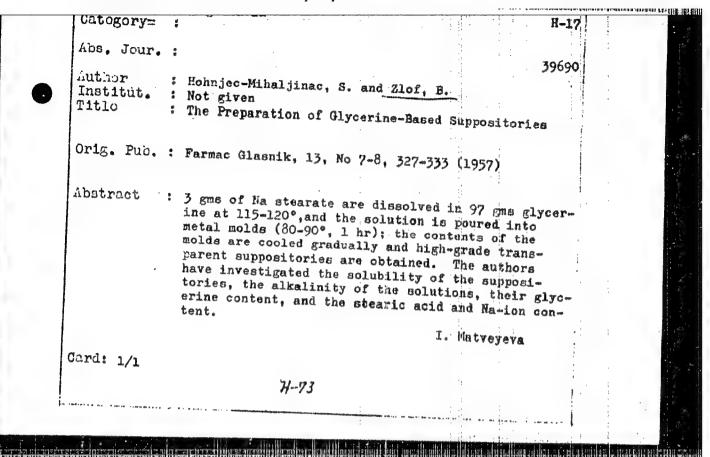
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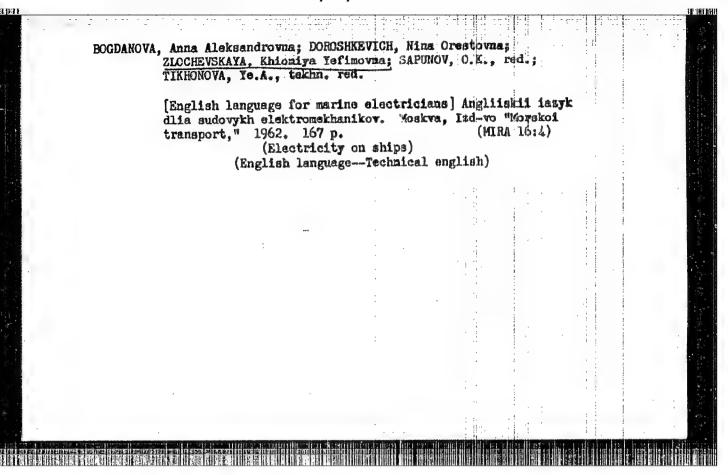
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ZLOF, Blanka

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1. From the Institute of Frarmaceutical Technology of the Pharmaceutical Faculty, University of Zagreb.



ZIOCHEVSKAYA, R.I.

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1. Kafedra gruntovedeniya i inshemernoy geologii Moskovskogo universiteta.

ZLOCHEVSKAYA, T.N.

LEFROSY

"Research on the Reactivity of the Organism of Lepers Who Have Been Treated with Sulfones", by T.N. Zlochevskaya, Spornik Rabot Po Leprologii i Dermatologii; 1956, 7, pp 360-373 (from Meditsinskiy Reverativnyy Zhurnal, Section 1, No 2, 1957, p 147.)

Fharmacodynamic and Frey's hairs tests were performed on 53 persons afflicted with nodular leprosy; their pilorotor reflexes dermographia, etc., were examined. Sulfonic compounds and preparations, mostly combined with chaulmoogrates, acted well upon the indicators which reflect the changes in the peripheral nervous system.

Card 1/1

- 37 --

COMBERG, S. L., ZLOCHEVSKIY, G. S.

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Inzh.; Giprogorstroyproyekt

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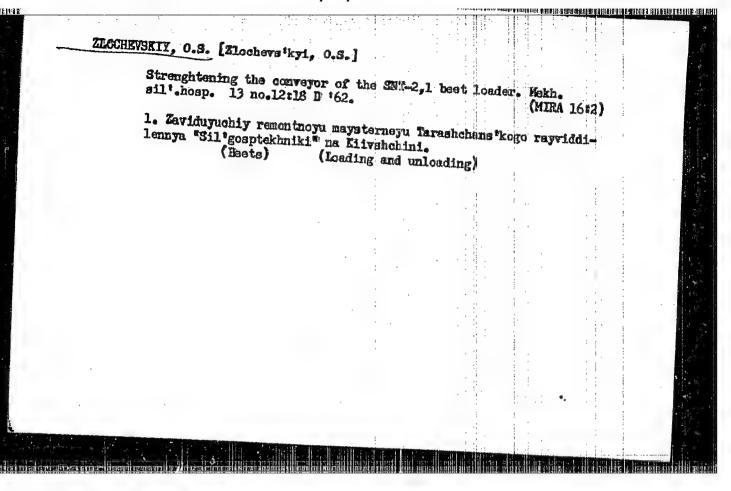
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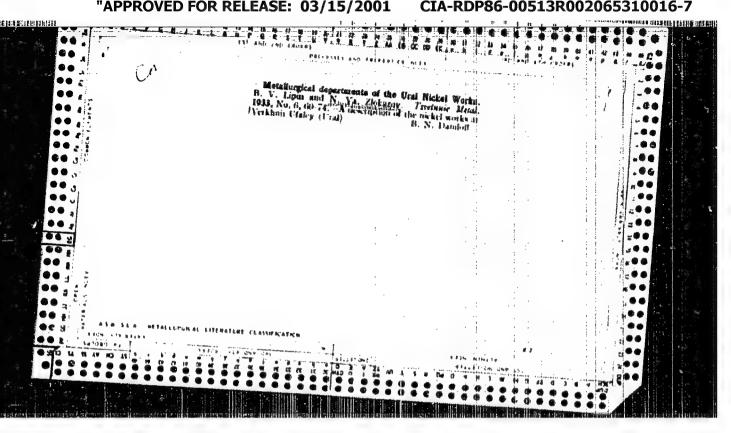
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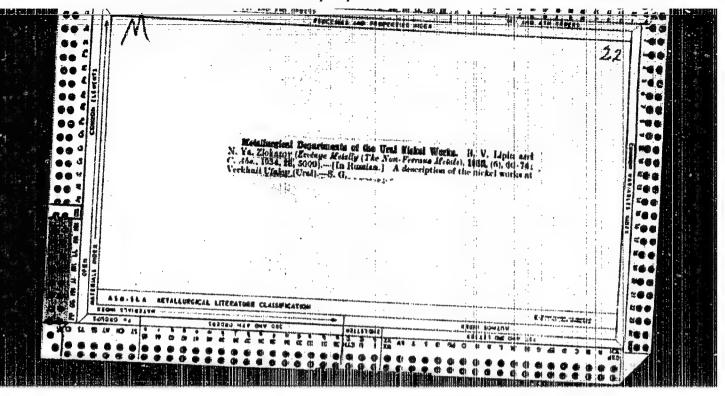
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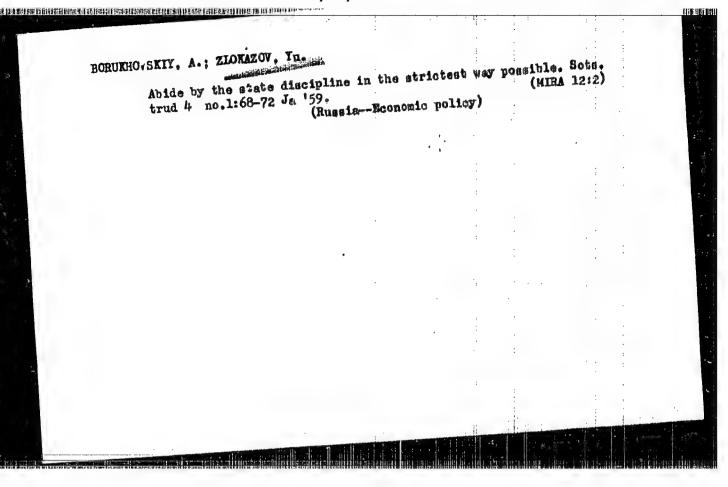
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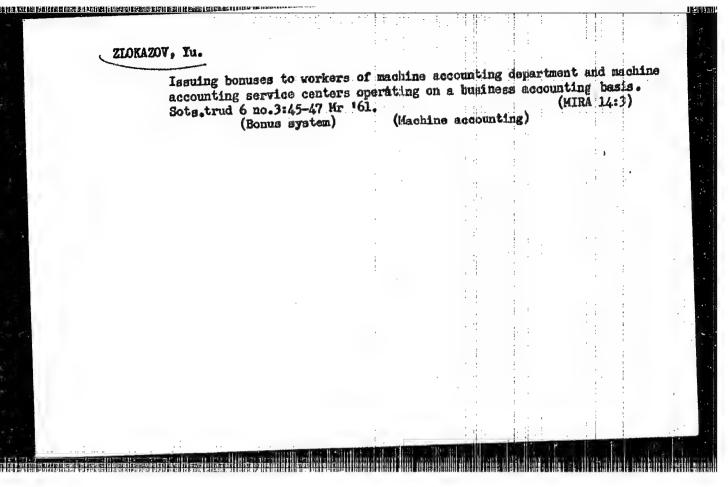


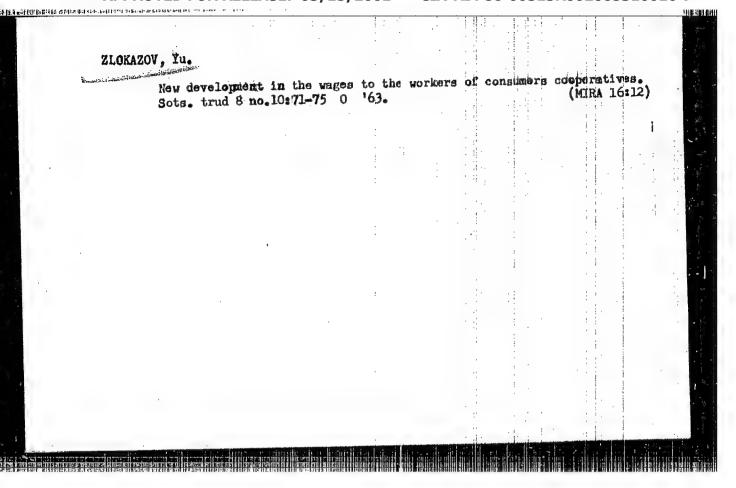




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GERMAN-GALKINA, A.S.; ZLOKAZOVA, T.M.; MEL'NIKOVA, V.P.; SIDORENKO, V.V.

Use of hydrocyclones in thickener units for the separation of solids in aluming-bearing sinters. TSvet. met. 34 no.1:52-54

Ja 61.

(MINA 17:3)

SILINA, Ye.I.; ZLOKAZOVA, T.M.; ZOLOTAREVA, M.G. Prinimeli uchastiye: YEVTYUTOV, A.A.; LEVINA, P.I.; CHEMODANOV, V.S.; SVECHNIKOVA, L.I.; KRIVONISHCHENKO, V.V.

Experimental factory testing of polyacrylamide flocculent as a substitute for meal in the production of alumina, TSvet. met. 37 no.12:44-46 D '64 (MIRA 18:2)

1. Ural'skiy alyuminiyevyy zavod (for Yevtyutov, Levina, Chemodanov). 2. Ural'skiy nauchno-issledovatel'shiy i proyektnyy institut obogashcheniya i mekhanicheskoy obrabotki poleznykh iskopayenykh (for Svechnikova, Krivenishchenko).

CHERNYSHEVA, A.F.; MERKUSHEVA, I.A.; ZLOKAZOVA, V.M.; KOSTINA, G.M.

Economic and geographical study of small rivers in the Votkinsk Reservoir region for the purpose of developing transportation. Uch. zap. Perm. gos. un. 101:57-69'63 (MIRA 18:2)

ZLOKOVIC, Milan, ing., arh., prof.; ZLOKOVIC, Dorde, dr., ing., arh., asistent

Importance of modular coordination in the design and construction of buildings. Produktivnost 3 no.9:583-593 S 161.

1. Arhitektonski fakultet Univerziteta, Beograd.

Problems of Electrification of Villages and Agriculture in Tugoslavia and Abroad. p. 124, Vol. 22, no. 3/4, 1954. Ljubljana

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

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Report on problems of voltage regulation of three-those generators without an automatic control as used with the prototype of the ST 1950 hydraulic turbine with no speed governor for rural electrification. p. 102. ZBORNIK RAFOVA. Beograd. No. 37, 1954

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ZECKOTIC, V.

Proposed national standard for the installation of electric fences in agriculture and forestry. p. 62. (STANDARDIZICIJA, Fo. 11, 4pr., 1951, Beograd, Yugoslavia)

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New electric and electronic procedures in industrial manufacture of foodstuffs. I. (To be contd.) p. 1183
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Review of rural electrification in the USA, Great Britain, and Austria, p. 1551 Bibliography of Yugoslav technical books. p. 1553

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ZLOKOVIC, VLADIMIR

Agriculture

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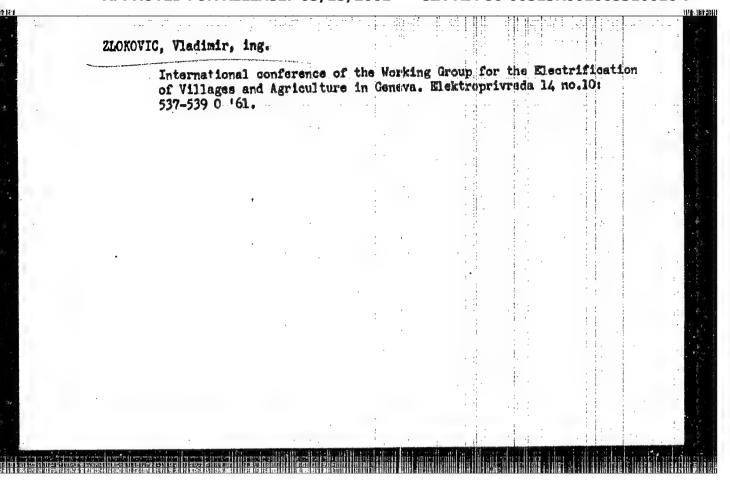
Rezultati primene elektricnih aparata za primamlijivanje, otkrivanje i unistavanje insekata. Beograd, Institut "Nikola Tesla, " 1958. 55 p. (Belgrade. Institut za ispitivanje elektricnih pojava "Nikola Tesla." Posebno izdanje, sv.6) (Results of the application of electric light traps in enticing, detecting, and destroying insects. English summary, illus., bibl., graphs, tables)

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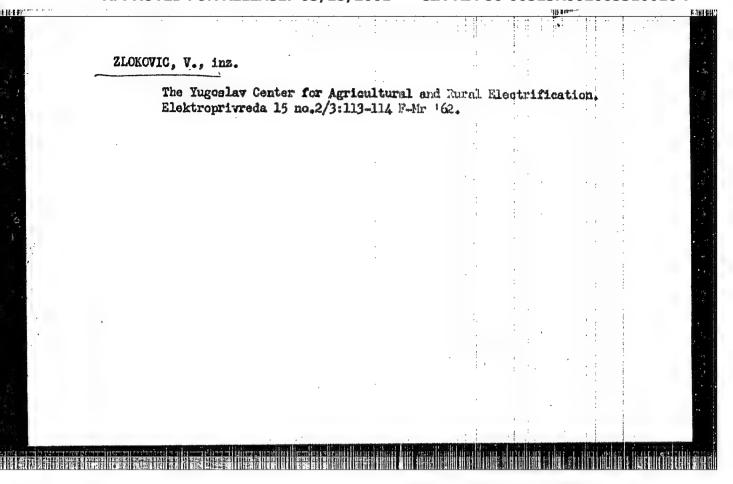
ZLOKOVIC, Vladimir, ing.

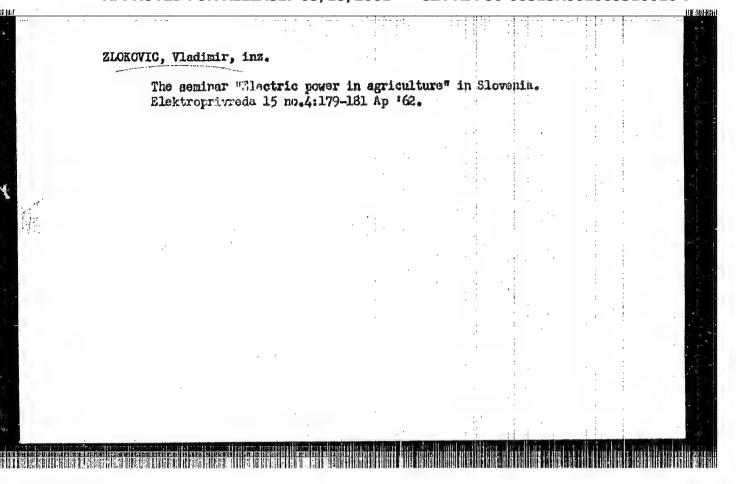
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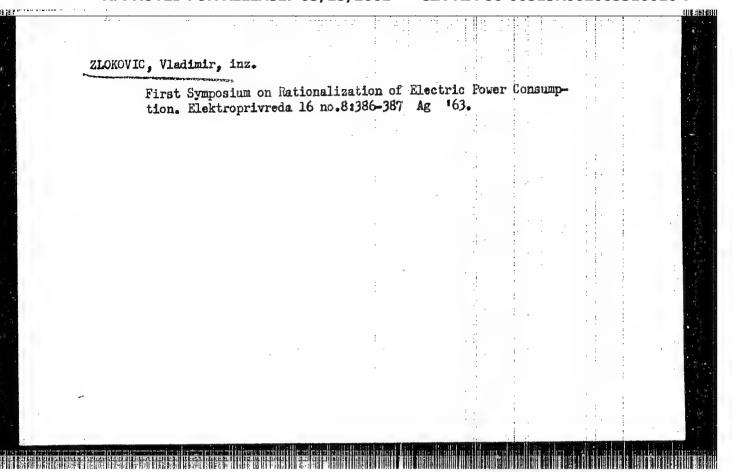


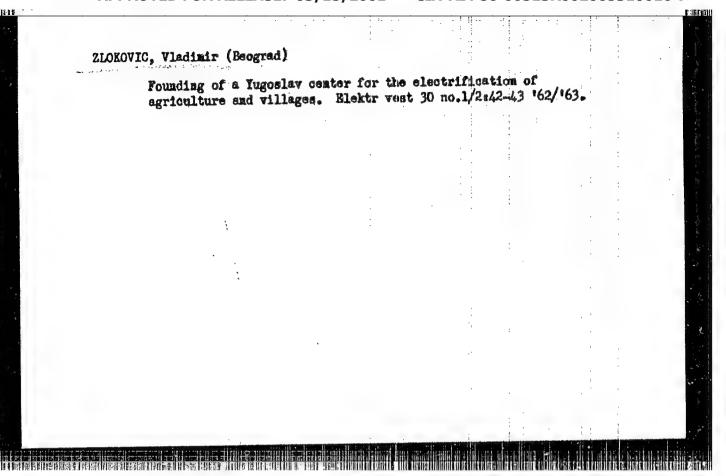
ZLOKOVIC, Vladimir, inz., visi naueni suradnik Possibility of using the electric heating pump for agricultural purposes. Energija Hrv 11 no.11/12:374-380 '62. 1. Institut "Nikola Tesla", Beograd, Cebinjska ulica br. 8.





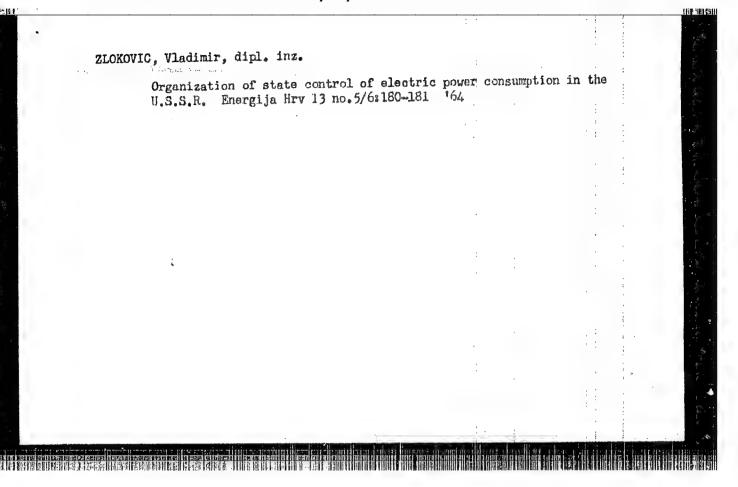
Principles and mathods in planning electrification of agriculture in the U.S.S.R. Elektroprivreda 16 no.2:105-110 Fe 163.

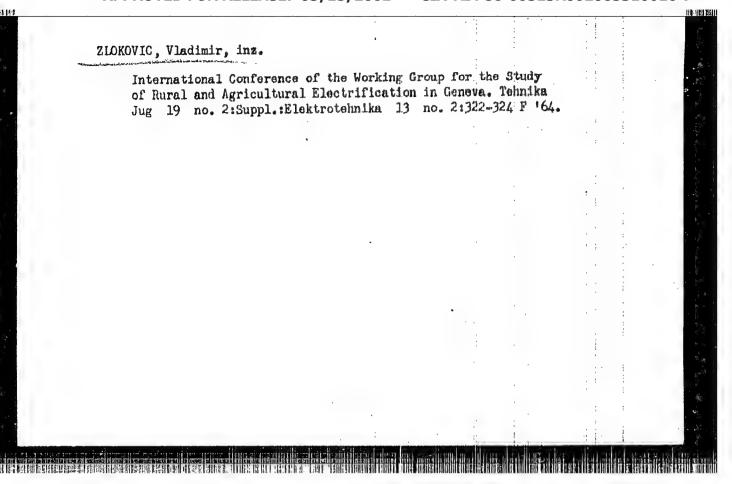


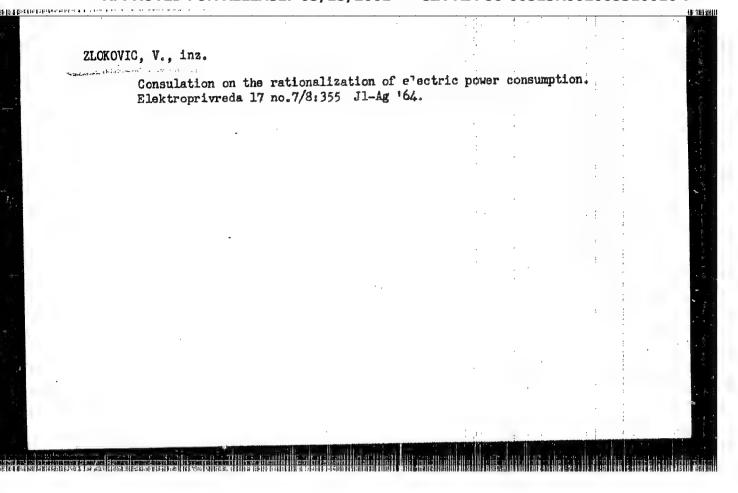


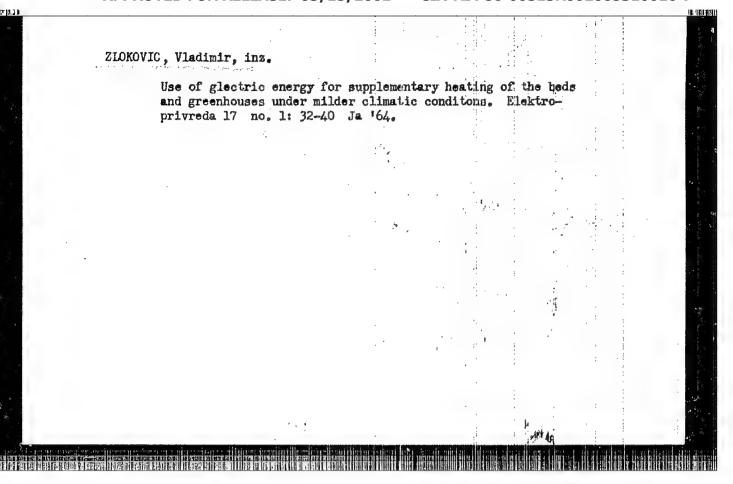
ZIOKOVIC, Vladimir, dipl. inz.

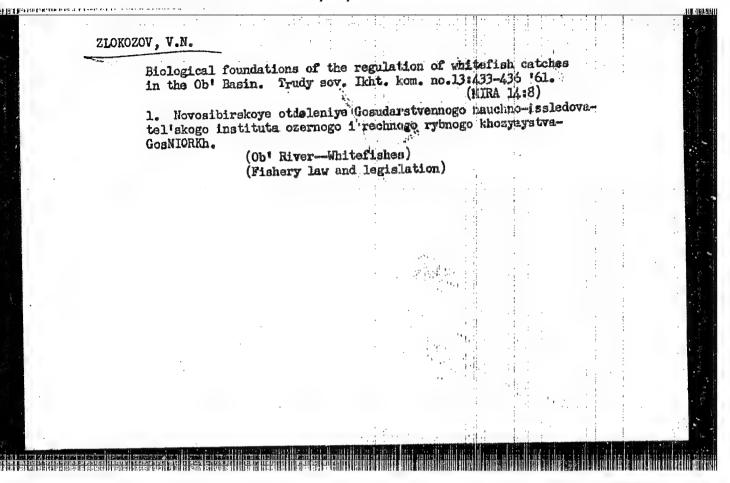
Some experiences in regulating the consumption of electric power in Czechoslovakia. Energija Hrv 13 no. 1/2:46-49 '64.



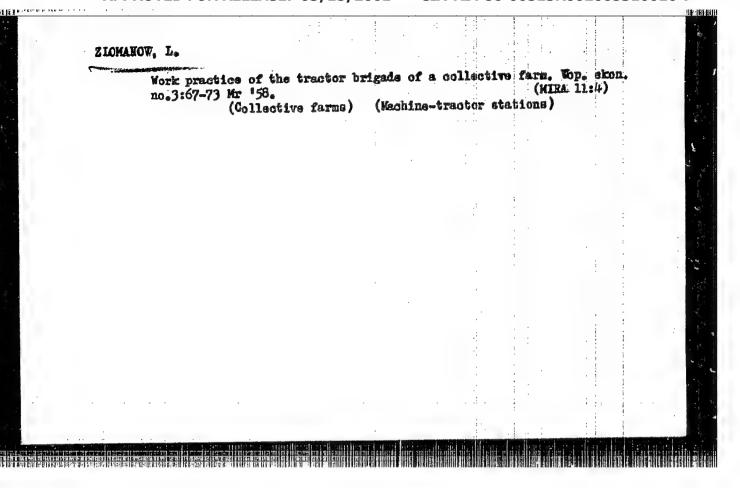








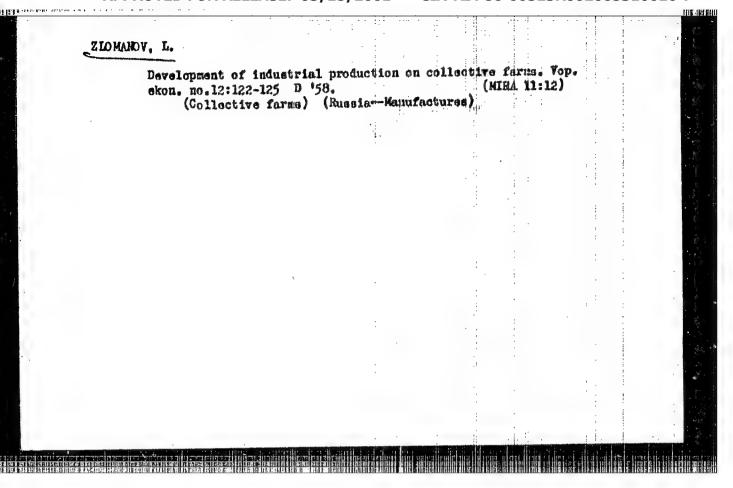
ZLOMANOV, L., skonomist Make better use of peat, Mauka i pered. op. v sel'khos. 8 no.4136 Ap '58. 1.Koskovskiy institut mekhanisatsii i slektrifikatsii sel'skogo khonyaystva. (Peat)

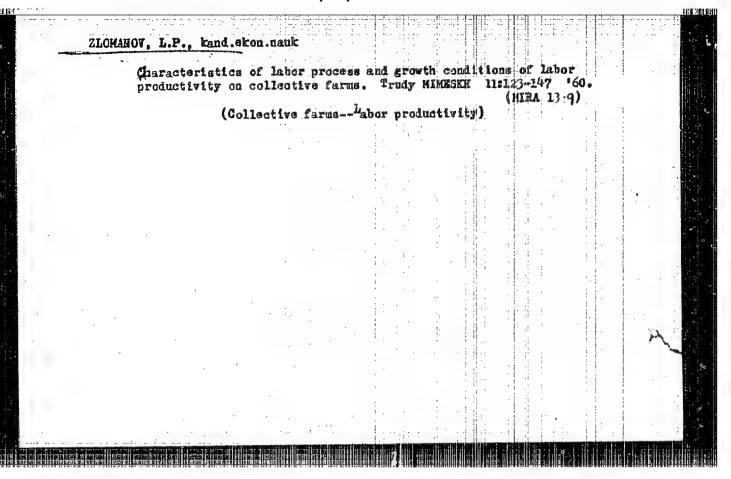


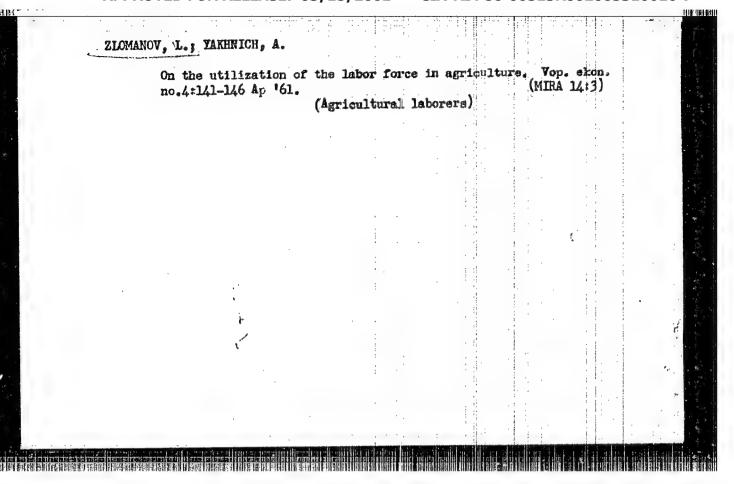
ZLOMANOV. L.P., prepodavatel

Indices of labor productivity for collective farm machinery operators. Trudy MIMESKE 5 no.1:109-121 158. (MIRA 13:10)

1. Kafedra politicheskoy ekonomii Moskovskog instituta mekhanisatsif i elektrifikatsii sel'skogo khozyayatva. (Collective faras---Labor productivity) (Repair and supply stations)







VDOVICHENKO, N.Kh.; DMITRASHKO, I.I., kend. tekhn. usuk; ZEPLEDKOV,
A.P.; ZLOMANOV, L.P.; KALPIN, C.Z.; NIZHNY, N.I.; NIKKIIMA,
M.V.; HÖMANERKO, I.N.; EUDARIMA, V., red.; USIIMOV, N., red.;
KIRSANOVA, I., mladshiy red.; NOCINA, N., tekhn. red.

[Agricultural wages in the U.S.S.R.] Oplata truda v sel'skom
khoziaistve SSSR. [By] Vdovichenko, N.Kh. i dr. Moskva,
Sotsekgiz, 1962. 147 p.

(Agricultural wages)

(Agricultural wages)

ZLOMANOV, Leonid Pavlovich, kand. ekonom. nauk; DUEROVSKIY, Iu.N., red.; TOWNOSYAN, H.Te., red.; HAZAROVA, A.S.,; tekhn. red.

[Economic relations between city and village during the large-scale building of communicm] Ekonomicheakie swiazi goroda i dervui v pariod razvernutogo stroitel stva kommunizma. Moskva, Izd-vo "Znanie," 1962. 44 p. (Nowoe v zhiani, nauki, tekhnika.

III Seriia: Ekonomika, no.1)

(Agricultural policy)

AKIYAMA, Kh. [Akiyama, Hiroshi]; GUSEV, M.A. [translator]; ZLOMANOV, Y.A. [translator]; RYABKIN, A.G. [translator]; TULIKOV, M.E. [translator]; SMIRNOV, P.I., red.; KHOMYAKOV, A.D., tekhn.red. [Special detachment 731] Osobyi otriad 731. Hoskva, Izd-vo inostr.lit-ry, 1958. 151 p. Translated from the Japanese. (MIRA 12:8)

(Manchuria-Bacteriological warfare)

PASHKOVSKIY, A.A.; ROZHETSKIN, A.M.; ZLOMANOV, V.A., spets.red.;
TULIHOV, N.N., red.; KUROCHKIN, V.D., red.; DANILOVA, Z.S.,
red.-leksikograf; BUSHYUK, H.I., red.-leksikograf; ANIKINA,
R.F., tekhn.red.

[Japaness-Russian military dictionary] Vosanyi iaponskorusskii slovar. Okolo 20000 slov i slovosochetanii. S prilozheniem stat'i "IAponskaia vosanaia leksika" A.A.Pashkovskogo. Moskva, Vosa.izd-vo M-va obor. SSSR, 1959. 552 p. (MIRA 13:1)

(Japanese Language-Dictionaries-Russian) (Military art and science-Dictionaries)

EL'YANOV, David Iosifovich; MCBCZOVSKIY, N.C., kontr-admiral, red.;

ZLOMANOV, Y.A., podpolkovnik, red.; SAVIN, B.V., red.-leksikograf;

KUZ'MIN, I.F., tekhn.red.

[Anglo-Russian and Russo-English dictionary of naval communds]

Anglo-Russian i russko-english dictionary of naval communds.

Pod rad. N.C. Morozovskogo. Moskva, Voen.ind-vo M-va obor.SSSR,

1960. 190 p.

(English language-Dictionaries-Russian)

(Russian language-Dictionaries-English)

(Naval art and science-Dictionaries)

KHAYASI, K.[Hayeshi, K.]; AHDO, T., prof.; KHURA, E., KLAMANOV, M. A. L., [translator]; ZOKIN, A. A. [translator]; EMIRMOV, P.I., red.; EUKOVSKAYA, N.A., tekhn. red.

[Ordnance rockets and Japan; military bases are a war threat]
Raketnoe oruzhie i IAponiia; voennye bany - ugroza miru. Vatup.
stat'ia i komentarii B.G. Sapozhnikova. Moskva, Voen. izd-vo
M-va oborony SSSR, 1961. 246 p. Abridged translation from the Japanese.

1. Tokiyakiy universitet (for Ando).

(Japan—Rockets (Ordnance))

SPAZHEV, Yu.A.; FILIPPOV, A.A.; ZLOMANOV, V.A., podpolkovnik, red.;
SOKOLOVA, G.F., tekhn. red.

[Translation of military terminology; the English language]
Kurs voennogo perevoda; angliiskii iazyk. Moskva, Voen. izd-vo
M-va obor. SSSR. Pt.l. 1962. 505 p. __ Supplement. 15 p.

(MIEA 15:3)

(English language—Translating)

(Military art and science—Terminology)

AUTHORS:

Zlomanov, V.P., Noroselova, M.V.,

567/78-3-7-1/44

Pashinkin, A.S., Simanov, Yu.P., Semenenko, K.N.

TITLE:

Determination of the Pressure of Steam Saturated With Solid Tellurium Dioxide (Opredeleniye davleniya nasyshchennogo para

tverdoy dvuokisi tellura)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol. 3, Nr 7, pp 1473-1477

(USSR)

ABSTRACT:

The pressure of steam saturated with solid tellurium dioxide was determined in the temperature interval of 457-704° C by means of a radioactive tellurium isotope. The phase composition of tellurium dioxide was determined, for which purpose thermograms for the temperature interval of 25-800°C, as well as heating and cooling diagrams were made. X-ray analyses showed that the crystal lattice of tellurium dioxide is tetragonal and has the follow-

ing parameters: a = 4,796, c = 7,588 kX.

On the strength of the results obtained by thermographical and radiographical analyses it follows that the solid phase of the vaporous tellurium dioxide shows tetragonal modifications. There

Card 1/2

are 3 figures, 2 tables, and 16 references, 9 of which are Soviet.

Determination of the Pressure of Steam Saturated With Solid Tellurium Dioxide

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. E.V. Lomonosova

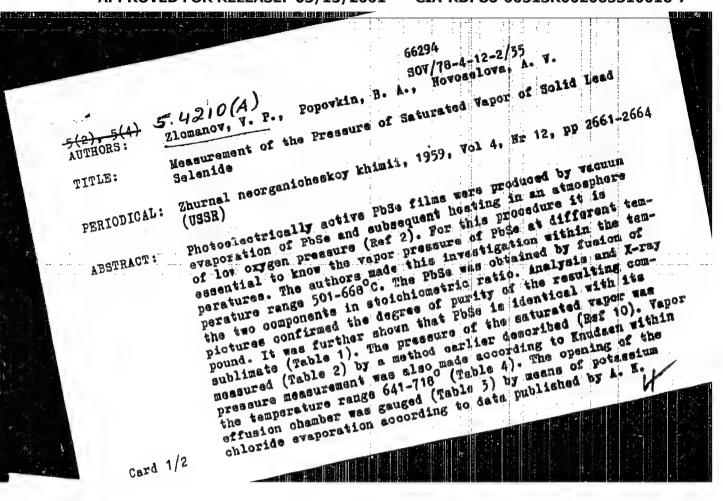
(Moscow State University imeni M.V. Lomonosov)

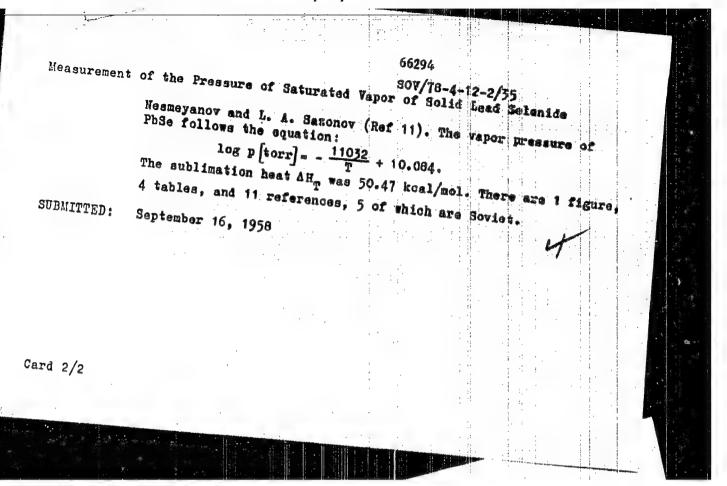
SUBMITTED: July 8, 1957

1. Steem—Pressure 2. Pressure—Determination 3. College of dioxide—Phase studies 4. Tellurium isotopes—Applications

5. X-rays--Applications

Card 2/2





Vitrification in the TeO₂ - Al₂O₃ S/078/60/005/007/043/045/XX Bystem

O - 15% Al₂O₃ were melted in porcelain crucibles at 750 - 800°C. Noncrystallizing glasses were obtained only at TeO₂ concentrations between
90 and 94% (Table 2). The high specific gravity (6 g/cm) is pointed out as a drawback. The diathermancy is illustrated in a figure.

Absorption at 3.2% is caused by moistness absorbed on the surface. The absorption curve was recorded by an MKC-11 (IKS-11) infrared spectroscopic sorption curve was recorded by an MKC-11 (IKS-11) infrared spectroscopic apparatus. There are 1 figure, 2 tables, and 8 references: 2 Soviet, 1 US, and 5 British.

Card 2/3

B5606

S/078/60/005/010/026/030/XX BO17/B067

26.2420

V. P., and Novoselova, Zlomanov.

AUTHORS:

Popovkin, B. A., Study of the Thermal Decomposition of Lead Selenate and

TITLE:

Lead Selenite

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 10,

PERIODICAL:

Card 1/2

pp. 2261-2264

TEXT: In the present paper, the authors studied the thermal decomposition of lead selenite and lead selenate by means of thermogravimetric and thermographic methods of analysis. The phases obtained on the thermal decomposition were examined by chemical analysis and by X-ray phase analysis. The interplanar spacings (d) and the relative lines of intensity of the X-ray pictures of lead selenite and lead selenate are given. The thermal stability of lead selenate and lead selenite was examined by continuous photography. The thermograms of lead selenite showed that it melts at 675°C under decomposition. When this compound mel4s, selenium dioxide vapors are formed. Two endothermic effects at 645 and 715?C were observed on the thermograms of lead selenate. The first thermal effect at 645°C

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Study of the Thermal Decomposition of Lead Selenate and Lead Selenite

S/078/60/005/010/026/030/XX B017/B067

corresponds to the monotropic, polymorphous transformation of lead selenate. The endothermic effect at 7150C indicates the melting point of lead selenate. Lead selenate melts under decomposition. Table 4 shows the phase composition of the products which formed on thermal decomposition. The decomposition products of lead selenate and lead selenite contain two phases which were studied by X-ray photographic methods. The lattice of the first phase A is tetragonally body-centered with the following parameters: a = 3.92 ± 0.01 A, c = 5.37 ± 0.01 A; the lattice of phase B is rhombically body-centered and has the following parameters: a = 3.92 ± 0.01 A, b = 3.73 ± 0.01 A, and c = 5.72 ± 0.01 A. There are 3 figures, 4 tables, and 9 references: 4 Soviet, 1 US, 3 French, and 1 German.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED:

July 9, 1959

Card 2/2

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065310016-7

21:734 \$/078/61/006/007/012/014 B121/B207

5 2400

Zlomanov, V. P., Muratova, G. V., and Novoselova, A. V.

AUTHORS:

The production of lead selenide

TITLE:

PERIODICAL:

Card 1/2

Zhurnal neorganicheskoy khimii, v. 6, nc. 7, 1961; 1730 - 1731

TEXT: The production of lead selenide by reducing lead selenite with hydrogen and reacting PbO with Se and Pb with SeO, was studied. The lead selenite used was prepared by mixing equivalent amounts of hot selenous acid solution and lead nitrate. Lead selenite is noticeably reduced with hydrogen at 300 - 350°C, at 420°C PbSaO, exists besides PbSe, at a temperature of 500 - 600°C. the reaction product consists sufficely of PbSe. At a reduction above 600°C, the reaction products decompose under the formation of selenium and metallic lead. The method suggested allows the production of PbSe without application of the toxic hydrogen selenide, using high purity initial materials. The optimum reduction temperature for lead

21,734

The production of lead selenide

\$/078/61/006/007/012/014 B121/B207

selenite with hydrogen is 600°C. Synthesis of lead selentee from a mixture of 4.23 g Pb and 1.5 g SeO2, as well as a mixture of 4.3 g PbO and 1.00 g Se at 600°C in sealed quartz ampouls during 10 hr leads to the

formation of PbSe and oxyselenite 2 PbO.PbSeO3. The reaction takes the

3 Pb0 + 3 Se---> 2 PbSe - PoSeO 5 following course:

3 Pb + 3 Se0 $_2$ \rightarrow PbSe +: 2 PbSe0 $_5$

There are 1 table and 11 references: 7 Soviet-bloc and d non-Soviet-blod. The 4 references to English language publications read as follows: Lawson, J. Appl. Phys., 4, 495 (1951) W. Benzing, J. Amer. Chem. Soc., 80, 2657 (1958) R. Willman, Proc. Phys. Soc., 60, 117 (1948) C. I. Milner, Nature, <u>163</u>, 322 (1949)

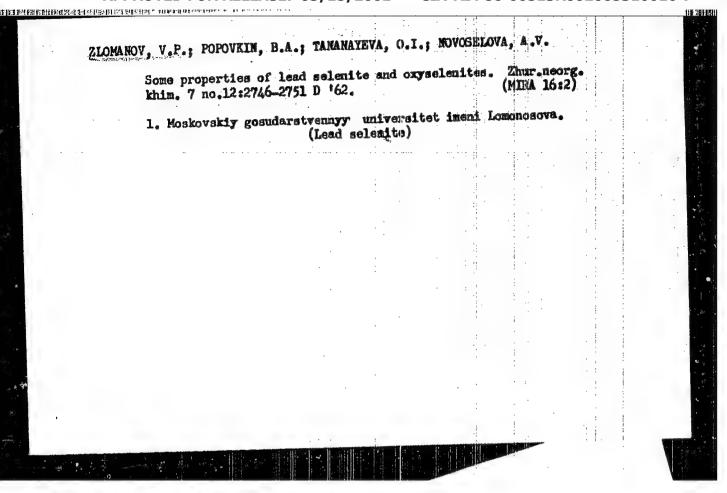
ASSOCIATION:

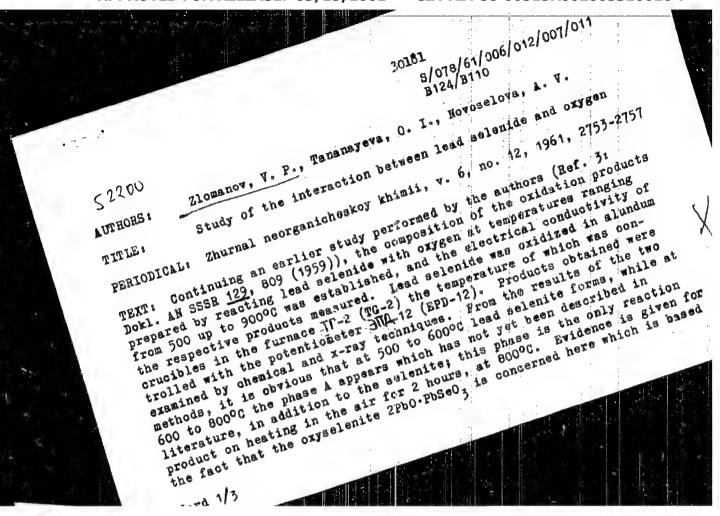
Moskowskiy gosudarstvennyy universitet im. M. W. Lomonosdva (Moscow State University imeni M. V. Lomorosov).

SUBMITTED:

January 30, 1961

Card 2/2





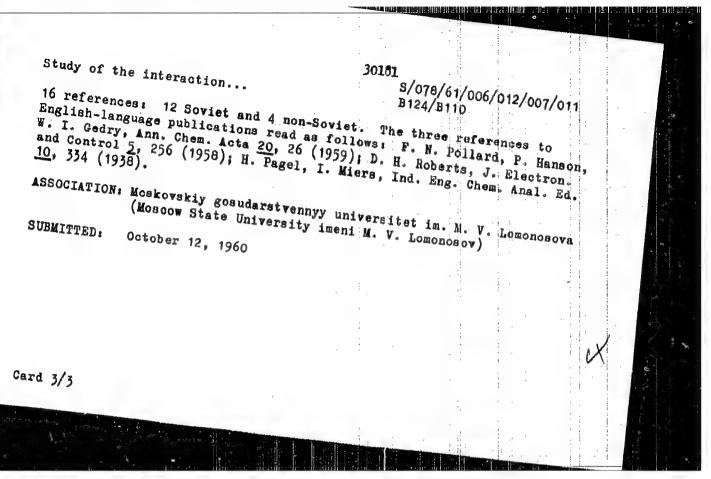
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30181

Study of the interaction ...

S/078/61/006/012/007/011 B124/B110

on the consistent densities established by pyonometric and x-ray measurements as well as on the identical powder diagrams of oxyselenitesynthetically prepared and of the sample. Oxyselenite has a tetragonal bodycentered lattice with the parameters a = 3.91 ± 0.01 kX; c = 5.37 ± 0.01 kX. Oxyselenite melts incongruently; the liquid phase appears first at 705 ± 10°C and the bulk of the oxyselenite melts at 740 ± 10°C. 4PbO.PbSeO. forms in the air at 9000C after 2 hours and was also prepared by the oxidation of lead selenide in the air at 1000°C for 1 hour. The parameters of the rhombic body-centered lattice of 4Pb0 PbS 0 are: a = 3.90 ± 0.01 kX; b = 3.71 ± 0.01 kX; c = 5.67 ± 0.01 kX. This compound is identical to the phase B described in earlier papers (Ref. 3: see above; Ref. 11: Zh. neorgan. khimii 6, 2261 (1960)) which melts congruently at 780°C. The conductivity of lead selenide oxidized at temperatures above 600°C was measured with a small-size ohmmeter (MOM-3 (MOM-3)) and was 2.10-8 to 2.10-10 ohm-1cm-1. V. I. Mikheyev (Ref. 9: Rentgenometricheskiy opredelitel mineralov (X-ray analyzer for minerals), Gosgeoltekhizdat, 1957, p. 95) is mentioned. Thanks are given to L. M. Kovbe for the performance of the x-ray examinations. There are 1 figure, 4 tables, and



S/020/62/143/001/020/030 B106/B138

7と、V(ゴ) Y AUTHORS:

Zlomanov, V. P., and Novoselova, A. V., Corresponding Member

of the AS USSR

TITLE:

Study of the reaction of lead selenide with oxygen

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 1, 1962, 115 - 18

TEXT: Kinetics of the reaction are studied in the range 122 to 496° C. The composition of the reaction products was ascertained by X-rays. Surface and specific resistance of the lead selenide samples prior to and after oxidation were determined. The subtly pulverized samples were produced from monocrystalline lead sclenide synthesized by the vibration method and subsequently vacuum sublimed. The surface of the samples was determined by adsorption measurements, the BET formula being used. When assuming that the pulverized sample consisted of cubes with edge x, the most probable value $x \approx 2 - 3\mu$ (also confirmed by electron-microscope observations), was obtained from the values of the surface and from value d = 8.30 g/cm³ of the density of lead sclenide (Ref. 6; see below). The measuring device for investigating the kinetics of the reaction of lead

S/020/62/143/001/020/030 B106/B138

Study of the reaction of lead ...

selenide with oxygen consisted of a microbeam balance constructed by G. G. Muttik (Ref. 7: ZhFKh, 31, 263 (1957)) (sensitivity 2:10-5g, load = 10 g, temperature coefficient<2.10⁻⁵g per 1°C), a high-vacuum plant (2.10⁻⁵-6.10⁻⁶ mm Hg, BH-461 (VN-461) and ~1-40 A (MM-40A)) pumps of a plant for purifying oxygen, containers for 02, Kr, He, Ar (He and Ar served to heat the sample in inert atmosphere), an electric -- -02 (TG-02) furnace, and apparatus for potentiometric temperature control (potentiometer F-307 (R-307)), and regulation of heating (373-01 (EPV-01) potentiometer). Oxygen pressure in all experiments was 150 ± 1 mm Hg. The results obtained are shown in Table 1 and Fig. 1. The initial rate of the reaction of lead selenide with oxygen follows the equation $(\lambda m)^2 = kt$ ($\Delta m = variation of the amount$ of absorbed oxygen with the time t). $\Delta E = 15 \text{ kcal/degree mol for the}$ activation energy was obtained from the temperature dependence of the rate constant k. In the X-ray analysis, the samples were exposed to CoK and Cuk radiations in PRY-86 (RKU-86) and PRI-57 (RKD-57) cameras with asymmetrically inserted films. The main product of the oxidation of lead selenide with oxygen in the temperature range investigated is lead selenite PbSeO3. The lattice parameter a . 6.114 ± 0.001 kX of PbSe did Card 2/7

\$/020/62/143/001/020/030 B106/B138

Study of the reaction of lead ...

not vary in the oxidation within the error limits. This constancy of Abrahica contradicts the results in Ref. 9 (see below). The linear rise of the initial parts of the kinetic curves (Fig. 1) is associated with the oxygen diffusion in anion vacancies accompanied by the development of an oxide phase. Lead selenite is formed both before and after the date corresponding to the discontinuation in the kinetic curves. The oxidized part of PbSe at the time of the discontinuation is 0.07% (122°C), 2.01% (275°C), 3.6% (317°C), and 13.6% (496°C). The break is assumed to correspond to the formation of an oxide film which is sufficiently thick to have a protecting effect and to decrease the oxidation rate sharply at the relevant temperature. The greatest thickness of the oxide film has values of approximately 4 Å (122°C), 150 Å (275°C), 170 Å (317°C), and 700 Å (496°C). The film covers the PbSe surface completely. The PbSe oxidation is associated with an increase in the compact surface layers of PbSeO3 which are fixed by the PbSe layer lying below. The course of the kinetic curves after the break corresponds to a noticeable decrease of the oxidation rate caused by the growth of the ride phase, the surface decrease, and the occurrence of mechanical defects. In this case, the kinetics of the oxidation can not be described unambiguously.

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S/020/62/143/001/020/030 B106/B138

Study of the reaction of lead ...

The decrease of the electric conductivity in the reaction of PoSe with oxygen, occurring at all temperatures investigated except 122°C (Table 1), corresponds to the increase in the amount of lead selenite in the sample. The authors thank G. G. Muttik for assistance in the construction of the microbalance. There are 1 figure, 2 tables, and 13 references: 9 Soviet and 4 non-Soviet. The four references to English-language publications read as follows: J. F. Miller, R. C. Himes, J. Electrochem. Soc., 107, No 11, 915 (1960); R. H. Jones, Proc. Phys. Soc., 70B, 704 (1957); Ref. 9: R. H. Jones, Proc. Phys. Soc., 70B, 1025 (1957); R. A. Beeb et al. J. Am. Chem. Soc. 67, 1554 (1945).

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

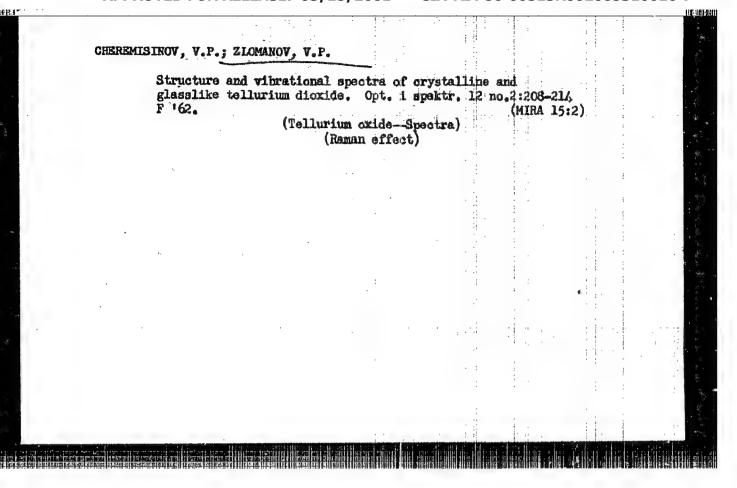
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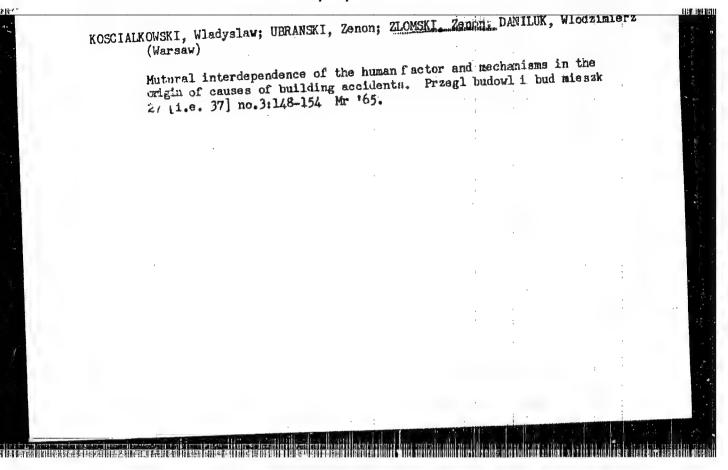
SUBMITTED: December 7, 1961

Table 1. Results of the reaction PbSe+02.

Legend: (1) Prior to oxidation; (2) after oxidation; (3) weighed portion, g; (4) variation of weight at degasification, in % of the initial

Card 4/7





On the application of the Cracovian root to the orthogonalization and normalization of sequences of functions. Archiv mech 14 no.6:901-904 '62. 1. Technical University, Krakow.

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| ACCESSION NR: AP3001688 | | |
| and the Opens | alaw (Krakow) | |
| AUTHOR: Zlonklewicz, Staul | dinamic systems. | |
| TITLE: Cracovian method fo | or solution of equations of motion of dynamic systems | • : |
| | 11 no 2 1963, 235-252 | : |
| SOURCE: Rozprawy inzyniers | skie, v. 11, no. 2, 1963, 235-252 | |
| monte Tacq. Lagrange equat | tion, eigenvector, eigenvalue, Cracovian calculus, matrix | |
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| | or Cracovian calculus to the integra- | |
| ARGTRACT: Author considers | s the application of Cracovian calculus to the integra- of motion. This calculus gives a great simplicity and | |
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| ABSTRACT: Author considers tion of Lagrange equations lucidity to well known disc | cussions and computing methods. Eibenvectors and characteris- are first analyzed, their eigenvectors and characteris- | |
| ABSTRACT: Author considers tion of Lagrange equations lucidity to well known disc eigenvalues of a Cracovian | cussions and computing methods. Eibenvectors and characteris- are first analyzed, their eigenvectors and characteris- similar motions are introduced as those used in matrix | |
| ABSTRACT: Author considers tion of Lagrange equations lucidity to well known disc eigenvalues of a Cracovian tic equations are given: | cussions and computing methods. Elbenyectors and are first analyzed, their eigenvectors and characteristimilar motions are introduced as those used in matrix similar motions are introduced as those used in matrix emiliar motions. The symmetrical ems are formulated in this connection. The symmetrical | |
| ABSTRACT: Author considers tion of Lagrange equations lucidity to well known disc eigenvalues of a Cracovian tic equations are given: algebra. Five basic theory | cussions and computing methods. Elbenyectors and are first analyzed, their eigenvectors and characterissimilar motions are introduced as those used in matrix ems are formulated in this connection. The symmetrical greater detail. The iterative method of determining | |
| ABSTRACT: Author considers tion of Lagrange equations lucidity to well known disc eigenvalues of a Cracovian tic equations are given: algebra. Five basic theory | cussions and computing methods. Elbenyectors and are first analyzed, their eigenvectors and characterissimilar motions are introduced as those used in matrix ems are formulated in this connection. The symmetrical greater detail. The iterative method of determining | |
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| ABSTRACT: Author considers tion of Lagrange equations lucidity to well known disc eigenvalues of a Cracovian tic equations are given: algebra. Five basic theory | cussions and computing methods. Elbenyectors and are first analyzed, their eigenvectors and characterissimilar motions are introduced as those used in matrix ems are formulated in this connection. The symmetrical greater detail. The iterative method of determining | |

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ACCESSION NR: AP3001688

systems in the vicinity of the point of stable equilibrium are analyzed. A free conservative system is taken for which the Lagrange equations are replaced with a trace differential equation of the second order whose solution may be reduced to determining eigenvectors of a certain Cracovian. The properties of these solutions are expressed by three theorems. The obtained results are extended to cribes a Cracovian linear equation of the second order. For its solution, methods the author, very simple from the computational viewpoint. Finally, a free dissipative system is analyzed. It is described by a first order linear differential the determination of eigenvectors of a certain Cracovian. The orig, art, has:

ASSOCIATION: Akademiya Gorniczo-Hutnicza, Krakow (Mining and Metallurgical Academy

SUBMITTED: Q4Dec62

DATE ACQ: 31May63

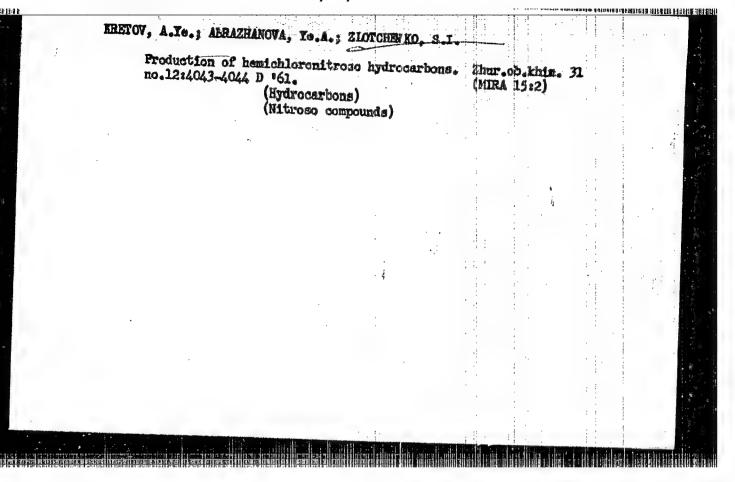
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OTHER: 007

Card 2/2



KRETOV, A.Ye.; AERAZHANOVA, Ye.A.; ZLOTCHENKO, S.I.; KUKHAR', V.P.

Arene sulfamido ketones. Zhur.ob.khim. 33 no.7:2355-2357 Jl
'63. (Acetophenone) (Sulfamide)

(MIRA 16:8)

ROVINSKIY, M.S.; KRETOV, A.Ye.; ZLOTCHENKO, S.I.

Determination of technical thiourem by the method of emperometric titration. Zav.lab. 29 no.2:154-156 163. (MIRA 16:5)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.
(Urea) (Conductemetric analysis)

22281

8/152/61/000/004/002/009 B126/B219

11.1210

AUTHORS:

Panchenkov, G. M., Bazilevich, V. V., Boyeva, R. S.,

Zlotchenko, V. N., Nikolov, N. I.

TITLE:

Investigation of the influence of the catalyst composition on the hydrocarbon content of gasolines from catalytic

cracking

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Neft i gaz, no. 4,

1961, 57-62

TEXT: The above investigation was carried out in view of the growing importance of petroleum as a raw material for chemical synthesis. The combined method of B. A. Kazanskiy and G. S. Landsberg for detailed examination of gasolines served as a basis, (Ref. 3: Landsberg G. S., Kazanskiy B. A., Bazhulin P. A., Bulanova T. F., Liberman A. L., Mikhaylova Ye. A., Plate A. F., Sterin Kh. Ye., Sushchinskiy M. M., Tarasova G. A., Ukholin S. A. "Opredeleniye individual nogo uglevodorodnogo sostava benzinov pryamoy gonki kombinirovannym metodom" ("Determination of the individual hydrocarbon content in straight-run gasclines by a Card 1/3

22281 S/152/61/000/004/002/009 B126/B219

Investigation of the influence...

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combined method"), Izd-vo AN SSSR, 1959; Ref. 4: Landsberg G. S., Bazhulin P. A., Sushchinskiy H. M. "Osnovnyye parametry spektrov kombinatsionnogo rasseyaniya uglevodorodov" ("Basic parameters of the spectra of Raman scattering from hydrocarbons"), Izd-vo AN SSSR, 1956). A distillate with a boiling interval at 300-400°C was used as initial raw material. Cracking was brought about in the laboratory at a temperature of 475°C and a feed rate of the raw material of 0.7 ml/hr, and lasted for 1 hr. The experiment was carried out under the same conditions in two equal apparatuses with aluminum silicate catalysts of various Al203 content, viz. a commercial aluminum silicate catalyst consisting of 12.8% Al₂0₃, 85.1% Sio₂, 0.2% Fe₂0₃, 0.05% Cr₂0₃, and a synthetic aluminum silicate catalyst with 30% Al203 and 70% SiO2. The fractions 55-95 and 95-122°C were subjected to chromatographic adsorption, the losses being far less through use of the method of A. V. Topchiyev and collaborators (Ref. 5: "Khimiya i tekhnologiya topliva i masel", no. 11, 1957). In the determination of the individual composition of the narrowband fractions, the method of the Raman spectra was used. The results of the investigation showed that the catalyst with the higher Al203 content

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has a greater isomerizing effect. The dehydrogenating effect of this catalyst is greater too. The catalyst with Al₂O₃ and Cr₂O₃ content has a greater cyclization effect. With this catalyst, gaspline with a higher aromatic and naphthenic hydrocarbon content was obtained. There are two references: 5 Soviet-bloc and 2 non-Soviet-bloc. The Molpolder F. W., Brown P. A., Young W. S., and Headington C. E., Ind.Eng.Chem., 44, 1142, 1952; Cady W. E., Marsehner R. F., Cropper W.P.,

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SUBMITTED: December 8, 1960

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